## Abstract

Circuit and method for reducing the crest factor

According to the invention, a circuit for reducing the crest factor is provided:

- (A) with a transmit path with a data symbol to be transmitted;
- (B) with a model path,
  - which is arranged in parallel with a section of the transmit path,
  - which exhibits a model filter to which the nonoversampled data symbol to be transmitted can be supplied, the non-oversampled data symbol exhibiting a non-flat PSD power spectrum,
  - which exhibits an analysis and evaluation circuit which is arranged following the model filter and which checks whether the time domain function of the data symbol to be transmitted exhibits within a predetermined time interval least one maximum, the amount of which exceeds a first threshold and/or determines the associated position of the maximum within the interval, time and which, by scaling displacing dirac-like а sample function generates a correction function in dependence the position and the amplitude of maximum;
- (C) with a subtracting device which is connected to outputs of the model path and of the transmit path and which subtracts the correction function from the data symbol to be transmitted.

Figure 3